

C2

1 10. (Amended) A device as in claim 1, wherein the device, prior to
2 implantation in a subject, further comprises autologous vascular endothelial cells adherent to
3 an interior surface of the tubular smooth muscle cell complex.

C3

1 11. (Twice Amended) A method for preparing a vascular prosthesis seeded
2 *ex vivo* with vascular smooth muscle cells transduced to express a gene of interest, comprising
3 the steps of:

4 transducing mammalian vascular smooth muscle cells with the gene of interest
5 operably linked to a promoter for expression;
6 and immobilizing the transduced vascular smooth muscle cells on a vascular
7 graft surface, whereby the smooth muscle cells remain stably immobilized on the graft surface
8 and express a product of said gene.

C4

1 13. (Twice Amended) A method as in claim 11, wherein the gene encodes
2 erythropoietin.

1 14. (Twice Amended) A method as in claim 11, wherein the gene encodes
2 Factor IX.

1 15. (Twice Amended) The method of claim 11, wherein the gene encodes
2 granulocyte colony stimulating factor, granulocyte macrophage colony stimulating factor.

1 16. (Twice Amended) A method as in claim 11, wherein the transduced
2 cells constitutively express an anticoagulant protein.

C5

1 19. (Three Times Amended) A method as in claim 11, wherein the gene of
2 interest encoded glucose-regulated insulin or proinsulin polypeptide, and wherein the
3 transduced cells express glucose-regulated insulin or proinsulin polypeptide.

C6

1 20. (Twice Amended) A method for preparing a vascular prosthesis seeded
2 *ex vivo* with vascular smooth muscle cells transduced to express a protein product, comprising
3 the steps of:
4 culturing vascular endothelial cells and vascular smooth muscle cells;